Holden Hinkle

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Profile

I'm a software engineer with experience building scalable, containerized backend systems and web applications.

Most recently, I worked on Backpack—a self-hosted, multi-instance backend-as-a-service. Before that, I created a multi-million dollar online platform that connected music students and teachers.

Professional Experience

Backpack, https://bkpk.dev, *Software Engineer* ⧉　　　　　　　　　　　　2020 – present | Remote

Backpack is a multi-instance backend-as-a-service (BaaS) that provides the essential features of user authentication, data persistence, file storage, real-time communication, and frontend hosting without the complexities of managing and configuring servers.

Built with Node.js, Express, MongoDB, PostgreSQL, Redis, React, and Docker.

- Worked with a remote team to create the core Backpack app and infrastructure
- Built the WebSocket-based real-time system, which includes methods for interacting with the database, managing channels, and broadcasting HTTP request responses
- Integrated the real-time system with the user authentication system
- Created methods for dynamically generating database models for database collections
- Created methods for dynamic route generation on start-up and at runtime
- Contributed to architectural decisions regarding Backpack's multi-instance infrastructure
- Developed the Software Development Kit (SDK), a JavaScript library for interacting with REST API
- Co-authored technical case study, detailing Backpack's design and implementation

Full Stack Web Developer, *Software Engineer*　　　　　　　　　　　　　2018 – 2020 | Remote

- MazeCraze: A single and multi-line puzzle game similar to the popular iOS games Fill and Flow Free. Built with Ruby, Sinatra, PostgreSQL, and Bootstrap
  - Created the backend system that automatically creates valid line-puzzles from given constraints for each line-type
  - Built a multi-threaded background job system to run the computationally expensive processes required to create thousands of valid line-puzzles from millions of permutations
  - Increased efficiency of algorithm for generating permutations by over 97% compared to Ruby's Permutation method
- Mello: A Trello-like SPA built with React and Redux, and a Ruby on Rails API backend that allows users to create, edit, and delete boards, lists, and cards
- Postit: A Reddit-like app built with Ruby on Rails and PostgreSQL that allows users to create, comment on, and vote on posts

Encore Music Lessons, *Founder, CEO*　　　　　　　　　　　　　　　　2005 – 2017 | NYC, NY

- Built a multi-million dollar online platform that connected music students and teachers and processed student and teacher payments
- Led the product development team for the company's website and administrative, teacher, and student logins
- Designed the company's automated backend infrastructure and the company's unique content management system
- Worked with a remote team of software engineers to build core systems and new features with attention given to the end-users

Skills

JavaScript, ES6, Node.js, Express, React, jQuery, Redux, Ruby, Ruby on Rails, Sinatra, WebSocket, PostgreSQL, MongoDB, Mongoose, Redis, Docker, Docker Compose, Docker Swarm, REST APIs, Git/GitHub, HTML, CSS, ERB, Handlebars

Education

Launch School, https://launchschool.com ⧉　　　　　　　　　　　　　　　　2018 – 2020

Multi-year full-stack software engineering curriculum focused on mastering web development fundamentals, algorithmic thinking, and problem solving.

Hunter College, City University of New York,　　　　　　　　　　　　　　　1998 – 2001
BA, Psychology. Minor, Computer Science.